

On page 22, include the paragraph beginning which begins on line 6 in the paragraph which ends on line 5.

On page 22, line 8, cancel "a" and substitute therefor --the--.

On page 22, line 10, cancel "independently" and substitute therefor --independent--.

On page 22, line 12, insert --also-- before "can".

On page 22, line 12, cancel "also".

On page 22, cancel line 17.

In the Claims:

On page 17, cancel line 1 and substitute therefor:

--We Claim As Our Invention--.

Please cancel claims 1-17, without prejudice, and substitute the following claims therefor:

18. A method for configuring a radio interface between a mobile station and a base station of a time-division multiplex mobile radio system for packet data transmission, the method comprising the steps of:
- defining a transmission from a mobile station to the base station as an uplink direction;
 - defining a transmission from the base station to a mobile station as a downlink direction;
 - forming a channel by at least one time slot per a time-division multiplex frame, wherein the packet data transmission from a plurality of mobile stations takes place via the channel;
 - combining 52 frames to form a macroframe;
 - providing a time slot for signaling at cyclic intervals in the channel;
- and
- allocating, by the base station, just one time slot for signaling for the uplink direction to the mobile station in accordance with a sequence which can be predetermined even if the mobile station does not transmit any

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packet data for the duration of a current and next macroframe, wherein the mobile station may transmit in the allocated time slot for signaling.

5 19. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 18, further comprising the steps of:

determining a timing advance for the respective mobile station from transmissions by the mobile station in the allocated time slot; and

10 transmitting the timing advance in a time slot for signaling in the downlink direction to the corresponding mobile station.

15 20. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 18, further comprising the step of:

defining the timing advance and values for a transmission power setting independently of one another.

20 21. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 20, further comprising the step of:

defining, additionally, the timing advance and the values for the transmission power setting from the time slots for packet data transmission.

25 22. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 18, further comprising the step of:

using longer transmission block types for specific configuration data in the time slots for signaling in the uplink direction.

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23. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 18, further comprising the step of:

transmitting configuration data defined in the downlink direction in time slots for packet data transmission.

24. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 18, further comprising the step of:

providing, by the base station, the timing advance for the configuration of the radio interface without being controlled by a base station controller.

25. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 18, further comprising the step of:

combining a plurality of time slots for signaling to form a signaling block.

26. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 25, further comprising the step of:

combining the time slots for signaling in accordance with a sequence which can be predetermined, wherein remaining time slots are provided for an adjacent cell measurement of the mobile station.

27. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 18, further comprising the step of:

coding.

providing information in time slots for signaling with additional

5 28. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 18, further comprising the step of:

enabling the packet data transmission to take place in both the uplink and downlink directions independently of one another.

10 29. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 18, further comprising the steps of:

designating, additionally, the mobile stations for packet data transmission by abbreviated identifiers; and

15 allocating, via the time slots for signaling in the downlink direction, one or more time slots for signaling in the uplink direction, to the mobile stations by means of indicator messages which contain abbreviated identifiers and time slot designations.

20 30. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 18, further comprising the step of:

25 transmitting, by a mobile station per time slot for signaling in the uplink direction, a self-contained message which contains a reception level of the mobile station.

31. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 18, further comprising the step of:

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providing transmissions, from the mobile station in the time slots for signaling allocated to it, access blocks having an extended preceding or subsequent guard time, whose transmission time results from a preceding transmission time, a signaled timing advance and an offset value.

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32. A method for configuring a radio interface between a mobile station and a base station as claimed in claim 31, further comprising the step of:

choosing the offset value such that a range which corresponds to the offset value is greater than the distance which the mobile station can travel between two transmissions for timing advance definitions at a maximum permissible speed.

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33. A base station system for configuring a radio interface between a mobile station and a base station of a time-division multiplex mobile radio system for packet data transmission, comprising:

a base station;

a plurality of mobile stations, wherein a transmission from a mobile station to the base station is defined as an uplink direction and a transmission from the base station to a mobile station is defined as a downlink direction;

a channel formed by at least one time slot per time-division multiplex frame, wherein the packet data transmission from the plurality of mobile stations takes place via the channel;

a macroframe formed from a combination of 52 frames;

a time slot for signaling provided at cyclic intervals in the channel;

and

a control device for allocating time slots to the plurality of mobile stations, wherein just one time slot for signaling for the uplink direction is

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